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Runkle, Mark A. et al.  
Serial No.: 08/550,941  
Group Art Unit: 2111

IN THE CLAIMS:

Please amend claims 1, 6, 15, 17, 25, and 27 as follows:

sub B2  
B1  
1. {ONCE AMENDED} An electrical interconnection system  
comprising:  
a rotary transformer for coupling to a first electrical  
system and to a second electrical system, the rotary transformer  
comprising:  
a rotor connected to the first electrical system;  
a stator connected to the second electrical  
system;  
a controller which adjusts an angular position of the  
rotary transformer.

5. 6. {ONCE AMENDED} The system of claim 1, [wherein the rotary  
transformer comprises:

B2  
a rotor connected to the first electrical system;  
a stator connected to the second electrical system;  
and] wherein the interconnection system further comprises a [an]  
torque control unit for rotating the rotor.

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CB

15. {ONCE AMENDED} A substation for electrically  
interconnecting a first electrical system and to a second  
electrical system, the first electrical system and the second  
electrical system having a differing electrical characteristic,  
the substation comprising:

BB

- a step-down transformer coupled to the first electrical  
system;
- a step-up transformer coupled to the second electrical  
system;
- a rotary transformer coupled to the step-down  
transformer and to the step-up transformer, the rotary  
transformer comprising:
  - a rotor connected to a first of the step-down and  
step-up transformers;
  - a stator connected to a second of the step-down  
and step-up transformers;
  - a controller which adjusts an angular position of the  
rotary transformer so that a predetermined power is transferred  
from the first electrical system to the second electrical system.

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*16;*  
17. {ONCE AMENDED} The system of claim *14*, [wherein the rotary transformer comprises:

*B4*  
a rotor connected to a first of the step-down and step-up transformers;

a stator connected to a second of the step-down and step-up transformers;

and] wherein the interconnection system further comprises a [an] torque control unit for rotating the rotor.

*23;*  
23. {ONCE AMENDED} An electrical interconnection system comprising:

*B5*  
a rotary transformer for coupling to a first electrical system and to a second electrical system, the rotary transformer comprising:

a rotor connected to the first electrical system;

a stator connected to the second electrical system;

a closed loop angular positioning control system which operates the rotary transformer for transferring power from the first electrical system to the second electrical system.

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sub  
C 17  
27. {ONCE AMENDED} A method of interconnecting two electrical systems, the method comprising:

BE  
coupling a rotor of a rotary transformer to a first electrical system and a stator of the rotary transformer to a second electrical system;

adjusting an angular position of the rotary transformer so that a predetermined power is transferred from the first electrical system to the second electrical system.

REMARKS

Favorable reconsideration of the captioned application is respectfully requested.

**A. SUMMARY OF THIS AMENDMENT**

By the current amendment, Applicants:

1. Advise the Examiner of the abandonment of the parent application, thereby mooting the double patenting rejection.
2. Amend claims 1, 6, 15, 17, 25, and 27 to emphasize features of the present invention.